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Department of Hematology, University of Baskent, Ankara, Turkey. drcanboga@hotmail.com

**Abstract**

Activated platelets have been identified in patients with sickle cell disease. However, the association of platelet P expression and automated red cell **exchange** procedures in these patients is not well known. We hypothesized that altered **whole** platelet P-selectin expression is associated with automated red cell **exchange**. Flow cytometric quantification of platelet P-selectin expression was carried out in 23 patients with sickle cell disease before and after automated red cell **exchange**. P-selectin expression was quantified as a binding index for platelet P-selectin (the percentage of positive platelets multiplied by the mean fluorescence of positive platelets). The patients were divided into two groups: individuals with painful vaso-occlusive crises (four women and five men; group 1) and those in a steady state (six women and eight men; group 2). The 33 **exchange** procedures were evaluated prospectively and used acid-dextrose A solution (**whole blood** to anticoagulant ratio = 14:1). Platelet P-selectin expression did not significantly change after automated red cell **exchange**. Clinical factors such as the volume of replacement fluid and the citrate infusion rate did not correlate with postapheresis platelet P-selectin expression. In addition, the association of platelet P-selectin expression and automated red cell **exchange** was independent of other laboratory factors (hematocrit level, hemoglobin S level, platelet count, and nitric oxide level). Finally, the difference between the study groups regarding platelet P-selectin expression before and after **apheresis** was insignificant. In conclusion, automated red cell **exchange** procedures do not induce platelet P-selectin expression in patients with sickle cell disease in the steady state or in vaso-occlusive crisis.

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